Meeting Summary Notes	Department of Health Office of Environmental Health & Safety ***Water Quality Subcommittee Meeting*** *March 22, 2005*

Facilitator:	Meliss Maxfield	Note Taker(s):	Nancy Bernard
Attendees:	Eric Dickson, CIH, ESD 101; Mark Cooper, SRDC Parent; Jack Tinnea, consultant; Diane McMurray, SRDC, WSPTA; Don Leaf, WSEHA; Mike Young, Snohomish Health District; Ron English, Seattle Public Schools; and Corrine Story, Skagit County Department of Health/Environmental Health Directors DOH Staff: Meliss Maxfield, Mark Soltman, and Nancy Bernard		
Absentees:	Jim Kerns, ESD 101; Randy Wright, SRDC private schools alternate; Julie Awbrey, Spokane Regional HD; Dan Sander, DOH; Paul Clark WAMOA Moses Lake; Wendy Jones, School Nurse Corp, ESD 114; Jim Nilson , Seattle Public Utilities; Joe Eneset, Institute of Environmental Health; Dan Wessel, Peninsula School District; Ken Wilson, CSP, Tacoma Public Schools; Gary Porter, TPCHD; and Gary Jefferis, (Everett SD) SRDC WAMOA		
Guests:	Sally Soriano, Seattle Public Schools Board member		

AGENDA ITEM	DISCUSSION
Review of Agenda Review last meeting's summary notes Review last meeting Decision Agenda Outcomes Welcome and Introductions Meliss Maxfield Handouts 1, 2, and 3	Meliss walked the group through today's materials. Technical difficulties prevented projecting the decision agendas to the group; however, staff read out loud all proposals, modifications to proposals, and voting outcomes. One further correction needed to the March 1 summary notes regarding reference to the Association of Higher Education Facilities Operator's (APPA) recommendations for Legionella.
ACTION	**Correct last meeting summary notes as noted above.**
AGENDA ITEM	DISCUSSION
Decision Agenda Handout 4 **Legionella sampling**	Modified proposal B and removed reference to presence of biofilm. Discussed what high in iron means (above the maximum contaminant level 0.3 mg/L).
ACTION	**The workgroup voted on proposals A and B.**
AGENDA ITEM	DISCUSSION
Legionella reporting/notification of results	Reporting/notification language for lead, copper, cadmium, and total coliform used. Existing regulations already require reporting of communicable disease by health care providers and local/state health personnel.
ACTION	**The workgroup voted on proposal A only.**
AGENDA ITEM	DISCUSSION
Legionella follow-up requirements	Follow-up requirements language for lead, copper, cadmium, and total coliform used.
ACTION	**The workgroup voted on proposal A only.**
Iron, manganese, color, and total dissolved solids sampling	The workgroup discussed the following: • Adding turbidity and zinc. • Having a third party collect samples when a complaint is received.

AGENDA ITEM	DISCUSSION
Iron, manganese, color, and total dissolved solids sampling – continued	• DOH develops guidance on sampling (first draw, 30 second flush, etc.). • If sampling protocols are met, it is not important on who collects the sample • DOH guidance needs to be easy to find like the WACs. • Having sampling in rule will increase the probability it will occur verses placing it in guidance. • Why sample for manganese? Manganese and iron are generally sampled together because of difficulties in differentiating when testing. • May not need to sample for all contaminants, need flexibility Modified proposal A, B, and added a new one, proposal C.
ACTION	**The workgroup voted on proposals A, B, and C.**
Iron, manganese, color, and total dissolved solids reporting/notification	Added turbidity and zinc for reporting and notification. Reporting/notification language for lead, copper, cadmium, and total coliform used.
ACTION	**The workgroup voted on proposal A only.**
Iron, manganese, color, and total dissolved solids follow-up requirements	Added turbidity and zinc to follow-up requirements. Added new proposal using existing WAC language for public water systems [WAC 246-290-320(d)]
ACTION	**The workgroup voted on proposals A and B.**
pH and alkalinity sampling	Water systems routinely sample for these so schools should not need to.
ACTION	**The workgroup voted on proposal A only.**
Tin sampling	Tin is not soluble and does not need to be sampled for. Tin is used in the food industry.
ACTION	**The workgroup voted on proposal A only.**
Turbidity sampling	Item not voted on based on including turbidity in discussions with iron, manganese, color, zinc, and total dissolved solids.
ACTION	**No voting occurred.**
Corrosion standards to safe guard against biofilm development	The workgroup discussed the following: • Questioned applicability/practicality of "pigging" small diameter pipes. • Concerns voiced over aggravating corrosion with cleaned pipes if "pigging" used as well as reopening leaks sealed with materials removed from "pigging". The issue is how to make schools less vulnerable to stagnant water, especially over the summer time (though some schools are active during the summer). Need more discussion on this issue bringing together corrosion engineers, mechanical engineers, school O & M, and health districts.
ACTION	**Proposals tabled, no vote taken.**
Guidelines and standards for epoxy pipe liners	The workgroup discussed the following: • The epoxy process uses beads to clean out lines and can cause leaks in pipes. • Concerns voiced regarding off gassing of organic chemicals and leachates from epoxy and cement liners and the need for follow-up testing (concerns associated with potential toxins/carcinogens, endocrine disrupters, etc.). • NSF verses EPA standards (both are health based).

AGENDA ITEM	DISCUSSION
Guidelines and standards for epoxy pipe liners – continued	• The pipe diameter is critical when using epoxy liners; smaller diameters leach more (AWWA is looking into this issue). Also need to ensure if epoxy pipe lining is done, it is certified for the pipe diameter intended. • DOH should establish leachate standards for liners. Proposal A modified to reflect application of epoxy for diameter of pipe being lined and monitoring consistent with EPA standards for organic chemicals. Proposal B developed to reflect need for DOH guidance development for use of epoxy lining in schools.
ACTION	**The workgroup voted on proposals A & B.**
Zero lead materials in new or remediation projects	The workgroup discussed the following: • Lead-free, cast red brasses for plumbing fixtures available through the Copper Development Association (CDA) at 0.25% alloy. Efficacy and availability of these fixtures is not known. • Zero lead fixtures adopted into law needed to increase production of fixtures. • DOH develops guidance on applicable percent, product list, etc., needed as part of recommendation to State Building Code Council. • Cite ASTM standard for use of galvanized pipe to reduce zinc leachates and use of inferior pipe. Modified proposal A and developed a proposal B.
ACTION	**The workgroup voted on proposals A and B. Workgroup member will provide ASTM standard specifications for pipe to Water Subcommittee facilitator.**
Certification mechanisms for ensuring compliance with standards	The workgroup discussed the following: • Quality control is needed during installation of materials to verify materials called out in project design are actually installed. • Commissioning of a project comes at the end of a project and is too late in the process. • Oversight needed at plan review and construction inspection stage. • The level of oversight / quality control varies depending on the extent, cost, and size of the project. Modified proposal A and developed a proposal B.
ACTION	**The workgroup voted on proposals A & B.**
Next Steps	**Subcommittee members will receive copies of today's summary notes and decision agenda outcomes.**
HANDOUTS	NEXT MEETING
1. Agenda 2. March 1 Summary Notes 3. March 1 Decision Agenda Outcomes 4. March 22 Decision Agendas	The Water Subcommittee meetings have concluded. A report back to the full School Rule Development Committee on Water Subcommittee recommendations will occur May 17, 2005.